DOCUMENT RESUME

ED 069 417

PS 006 159

TITLE

The Collaborative Study on Cerebral Palsy, Mental Retardation, and Other Neurological and Sensory Disorders of Infancy and Childhood. Bibliography No.

5, July 1971 through June 1972.

INSTITUTION

National Inst. of Neurological Diseases and Stroke

(NIH), Bethesda, Md.

REPORT NO

DHEW-NIH-73-384

PUB DATE

31 Aug 72

NOTE

20p.

EDRS PRICE

MF-\$0.65 HC-\$3.29

DESCRIPTORS

*Bibliographies; *Mental Retardation; *Neurology;

*Sensory Deprivation

ABSTRACT

The fifth in a series of annual bibliographies of Collaborative Perinatal Project is presented. All manuscripts based on core data presented at national and international professional conventions and/or published in variety of medical and public health journals or periodicals are covered. (NF)

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THE COLLABORATIVE STUDY
ON CERFBRAL PALSY, MENTAL RETARDATION,
AND OTHER NEUROLOGICAL AND SENSORY DISORDERS
OF INFANCY AND CHILDHOOD

OF INFANCY AND CHILDHOOD

NO. 5

July 1971 through June 1972

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
Public Health Service
National Institutes of Health
National Institute of Neurological Diseases and Stroke

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DHEW Publication No. (NIH) 73-384

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NOTE

Core publications are based either on pooled or local core data. The latter are identified by an asterisk preceding the serial number of the publication.

The National Institute of Neurological Diseases and Stroke is the federal agency chiefly responsible for research and research support in the neurological, sensory, and communicative fields. For a list of Institute publications write to NIMDS, National Institutes of Health, Bethesda, Maryland 20014

Prepared by

Medical Literature Unit

Section on Project Services

Perinatal Research Branch

National Institute of Neurological Diseases and Stroke

National Institutes of Health

FOREWORD

This document is the fifth in the series of annual bibliographies of the Collaborative Perinatal Project.

The publication covers in scope all manuscripts based on core data that were presented at national and international professional conventions, and/or published in a variety of medical and public health journals or periodicals. Core refers to patient selection by a systematic sampling method approved for each participating institution.

Manuscripts based on core data collected by all the Collaborating Institutions are cleared prior to presentation or prior to submission to a journal by an established NINDS-NIH mechanism for merit review. Perinatal Research Branch investigators submit all their manuscripts (pooled or local core and non-core) to the same review process. Manuscripts based on local core data are reviewed by the respective authorities at the local Collaborating Institutions.

Joseph S. Drage, M.D.
Acting Chief
Perinatal Research Branch
Collaborative and Field Research
National Institute of Neurological
Diseases and Stroke

August 31, 1972

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PREFACE

This is a compilation of Collaborative Perinatal Research Project publications from July 1971 through June 1972, the fifth in the series of annual bibliographies prepared at the end of each fiscal year.

The publications herein include:

- Pooled core data publications (publications based on Project data collected by all Collaborating Institutions*)
- 2. Local core data publications (publications based on Project data collected by any one Collaborating Institution)
- 3. Non-Project studies of special interest to authors at Perinatal Research Branch as well as those from authors in the Collaborating Institutions who are paid in part or in toto from Collaborative Perinatal Research Project funds.

Authors of Collaborative Project publications wishing consideration of articles not included are invited to send information together with reprints to:

Medical Literature Unit Section on Project Services Perinatal Research Branch, NINDS Federal Building, Room 7C-14 Bethesda, Maryland 20014

*Collaborating Institutions Boston Lying-In Hospital Brown University Charity Hospital of Louisiana Children's Hospital of Buffalo Children's Hospital of Philadelphia Children's Medical Center - Boston Columbia University Johns Hopkins University Medical College of Virginia New York Medical College Pennsylvania Hospital University of Minnesota University of Oregon University of Tennessee Warren Anatomical Museum Harvard University



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Core Data Publications

PERINATAL RESEARCH BRANCH

- 1. CATALANO, L.W., Jr., FUCCILLO, D.A., TRAUB, R.G., and SEVER, J.L. Isolation of rubella virus from placentas and throat cultures of infants. A prospective study after the 1964-65 epidemic.

 Obstetrics and Gynecology. 38: 6-14, 1971.
- *2. CATALANO, L.W., Jr., and JOHNSON, L.D.

 Herpesvirus antibody and carcinoma in situ of the cervix.

 Journal of the American Medical Association. 217: 447-450, 1971.
 - 3. CATALANO, L.W., Jr., and SEVER, J.L.

 The role of viruses as causes of congenital defects. A review.

 Annual Review of Microbiology. 25: 255-282, 1971.
- 4. CHURCHILL, J.A.
 On the etiology of cerebral palsy in premature infants. (Abstract)
 Neurology. 20: 405, 1970.
- #5. FRIEDMAN, E.A., and KROLL, B.H.

 Computer analysis of labor progression. IV. Diagnosis of secondary arrest of dilatation.

 The Journal of Reproductive Medicine. /7: 176-178, 1971.
- #6. FRIEDMAN, E.A., and KROLL, B.H.

 Computer analysis of labor progression. V. Effects of fetal presentation and position.

 The Journal of Reproductive Medicine. 8: 117-121, 1972.
- *7. FUCCILLO, D.A., SEVER, J.L., MODER, F.L., CHEN, T., CATALANO, L.W., and JOHNSON, L.D.

 Cytomegalovirus antibody in patients with carcinoma of the uterine cervix.

 Obstetrics and Gynecology. 38: 599-601, 1971.
- 8. FUJIKURA, T., and FROEHLICH, L.A.
 Organ-weight/brain-weight ratios as a parameter of prenatal growth:
 A balanced growth theory of visceras.

 American Journal of Obstetrics and Gynecology. 112: 896-902,
 1972.

Office of Biometry

- 9. MYRIANTHOPOULOS, N.C., CHURCHILL, J.A., and BASZYNSKI, A.J.
 Respiratory distress syndrome in twins.
 Acta Geneticae Medicae et Genellologiae. 20: 199-204, 1971.
- 10. NEWMAN, S.J., MADDEN, D.L., GITNICK, G.L., and SEVER, J.L.
 A serological survey for Australia antigen and antibody.
 American Journal of Diseases of Children. 122: 129-133, 1971.
- 11. SEVER, J.L.

 Persistent central nervous system infection by a virus: Rubella.

 In Immunological Disorders of the Mervous System. A.R.N.M.D.,

 Vol. XLIX. Baltimore, Md., Williams & Wilkins, 1971, pp. 365-372.
- 12. WILLERMAN, L.

 Biosocial influences on human development.

 American Journal of Orthopsychiatry. 42: 452-462, 1972.



COLLABORATING INSTITUTIONS

Core Data Publications

BROWN UNIVERSITY

- *13. DENHOFF, E., HAINSWORTH, P.K., and HAINSWORTH, M.L.

 The child at risk for learning disorder. Can he be identified during the first year of life?

 Clinical Pediatrics. 11: 164-170, 1972.
- *14. HOLDEN, R.H.

 Prediction of mental retardation in infancy.

 Mental Retardation. 10: 28-30, 1972.
- *15. MAN, E.B., JONES, W.S., HOLDEN, R.H., and MELLITS, E.D.
 Thyroid function in human pregnance. VIII. Retardation of progeny aged 7 years; relationships to maternal age and maternal thyroid function.

 American Journal of Obstetrics and Gynecology. 111: 905-916, 1971.
- *16. ROSENBLITH, J.F.

 Visual fixation and following in the meanatal period in relation to selected behaviors and development at 8 months and 4 years.

 In A. Dubois Poulsen, G.C. Lairy, et A. Remond (Eds.): La Fonction du Regard. The Function of the Gaze. Colloques de L'Institut National De La Sante et de la Recherche Medicale, No. 7. Paris, 1971, pp. 215-224.

CHARITY HOSPITAL OF LOUISIANA

- 17. MITCHELL, S.C., SELLMANN, A.H., WESTPHAL. M.C., and PARK, J. Etiologic correlates in a study of congenital heart disease in 56,109 births.

 American Journal of Cardiology. 28: 653-657, 1971.
- *18. SMITH, A.C., FLICK, G.L., FERRISS, G.S., and SELLMANN, A.H.

 Prediction of developmental outcome at seven years from prenatal, perinatal and postnatal events.

 Child Development. 43: 495-507, 1972.



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CHILDREN'S MEDICAL CENTER - BOSTON

*19. FIEDLER, M.F., LENNEBERG, E.H., ROLFE, U.T., and DROREAUGH, J.E. A speech screening procedure with three-year-old children.

Pediatrics. 48: 268-276, 1971.

JOHNS HOPKINS UNIVERSITY

- *20. BORDLEY, J.E., and HARDY, J.B.
 A hearing survey on preschool children.

 Transactions American Academy of Ophthalmology and Otolaryngology.

 76: 349-354, 1972.
- *21. COHEN, B.H., and MELLITS, E.D.

 Blood group incompatibility and immunoglobulin levels.

 Johns Hopkins Medical Journal. 128: 318-331, 1971.
- *22. HARDY, J.B.

 The Johns Hopkins Collaborative Perinatal Project. Part II.

 Cord serum immunoglobulin levels and long-range fetal outcome.

 Johns Hopkins Medical Journal. 128: 297-305, 1971.
- *23. HARDY, M.P., MELLITS, E.D., and WILLIG, S.N.
 Reading: A function of language usage.
 Johns Hopkins Medical Journal. 129: 43-53, 1971.
- *24. KRANITZ, M.A., and WEICHER, D.W.

 Behavioral characteristics of twins.

 Johns Hopkins Medical Journal. 129: 1-5, 1971.
- 25. LEVI, H.S., and WEICHER, D.W.
 Social class and race as determinants of the sex of human figures drawn by seven-year-olds.

 Johns Hopkins Medical Journal. 129: 10-18, 1971.
- *26. LOBL, M., WELCHER, D.W., and MELLITS, E.D.

 Maternal age and intellectual functioning of offspring.

 Johns Hopkins Medical Journal. 128: 347-361, 1971.
- *27. MELLITS, E.D.

 Relationships between cord serum immunoglobulin levels and later abnormalities. Is neonatal screening for IgM a worth-while procedure?

 Johns Hopkins Medical Journal. 128: 306-317, 1971.

- *28. MOORE, M., and WELCHER, D.W.

 A descriptive analysis of the seven-year psychological data.

 Johns Hopkins Medical Journal. 128: 332-346, 1971.
- *29. ODELL, L.M.

 Maternal intellectual functioning.

 Johns Hopkins Medical Journal. 128: 362-368, 1971.
- *30. WELCHER, D.W., MELLITS, E.D., and HARDY, J.B.
 A multivariate analysis of factors affecting psychological performance.
 Johns Hopkins Medical Journal. 129: 19-35, 1971.
- *31. WETZEL, K.H., WELCHER, D.W., and MELLITS, E.D.

 The possibility of overdiagnosing brain dysfunction ...om a single administration of the Bender Gestalt test.

 Johns Hopkins Medical Journal. 129: 6-9, 1971.
- *32. WHITEHOUSE, D. Psychological and neurological correlates of seizure disorders.

 Johns Hopkins Medical Journal. 129: 36-42, 1971.

UNIVERSITY OF OREGON

- *33. ENGEL, R., BUTLER, B., FAY, W., CLARKSON, D.
 Visual evoked responses, developmental and intelligence scores
 from birth to seven. (Abstract)

 Developmental Medicine and Child Neurology. 14: 114-115, 1972.
- *34. ENGEL, R., and FAY, W.

 Are electroencephalographic-evoked response latencies in neonates predictors of language performance at 1 and 3 years of age?

 Electroencephalography and Clinical Neurophysiology. 30: 159-160, 1971.
- *35. ENGEL, R., and FAY, W.

 Visual evoked responses at birth, verbal scores at three years, and IQ at four years.

 Developmental Medicine and Child Neurology. 14: 283-289, 1972.
- *36. FAY, W.H.

 The challenge of personal pronouns.

 Journal of Learning Disabilities. 5: 299-305, 1972.
- *37. FAY, W.H., and BUTLER, B.V.

 Echo-reaction as an approach to semantic resolution.

 Journal of Speech and Hearing Research. 14: 645-651, 1971.

- *38. GOFFENEY, B., HENDERGON, N.B., and BUTLER, B.V.

 Negro-White, male-female eight-month developmental scores compared with seven-year WISC and Bender test scores.

 Child Development. 42: 595-604, 1971.
- *39. HENDERSON, N.B., BUTLER, B.V., GOFFENEY, B., SAITO, C.H., and CLARKSON, Q.D.

 Sex of person drawn by Japanese, Navajo, American White, and Negro seven-year-olds.

 Journal of Projective Techniques and Personality Assessment.

 25: 261-264, 1971.
- *40. JENSEN, D.R., and ENGEL, R.
 Statistical procedures for relating dichotomous responses to
 maturation and EEG measurements.

 Electroencephalography and Clinical Neurophysiology. 30: 437-443,
 1971.

WARREN ANATOMICAL MUSEUM HARVARD UNIVERSITY

- 41. TOWBIN, A.

 Cerebral intraventricular hemorrhage and subependymal matrix infarction in the fetus and premature newborn.

 American Journal of Pathology. 52: 121-139, 1968.
- 42. TOWBIN, A.
 Organic causes of minimal brain dysfunction.

 Journal of the American Medical Association. 217: 1207-1214,

 1971.

PERINATAL RESEARCH BRANCH

Non-Core Data Publications

- 43. CATALANO, L.W., Jr., SAFLEY, G.H., MUSELES, M., and JARZYNSKI, D.J.
 Disseminated herpesvirus infection in a newborn infant. Journal of
 Pediatrics. 79: 393-400, 1971.
- 144. HORTA-BARBOSA, L., HAMILTON, R., WITTIG, B., FUCCILLO, D.A., SEVER, J.L., and VERNON, M.L.

 Subacute sclerosing panencephalitis: Isolation of suppressed measles virus from lymph node biopsies.

 Science. 173: 840-841, 1971.
- 45. KIESSLING, A.H., and FOX, B.H.
 Alcoholism on wheels.
 Psychiatric Opinion. 8: 30-37, 1971.
- 46. LONDON, W.T., FUCCILLO, D.A., LEY, A., and SEVER, J.L.
 Antibody response of various strains of rubella virus when inoculated into rabbits.

 Proceedings of the Society for Experimental Biology and Medicine.

 137: 925-927, 1971.
- 47. SHAPIRO, H.M., BRYAN, S.D., LIPKIN, L.E., STEIN, P.G., and LEMKIN, P.F. Computer-aided microspectrophotometry of biological specimens. Experimental Cell Research. 67: 81-89, 1971.



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COLLABORATING INSTITUTIONS

Non-Core Data Publications

BROWN UNIVERSITY

48. ANDERSON, R.B., and ROSEMBLITH, J.F.
Sudden unexpected death syndrome.
Biology of the Neonate. 18: 395-406, 1971

JOHNS HOPKINS UNIVERSITY

- 49. MENKES, J.H., WELCHER, D.W., LEVI, H.S., DALLAS, J., and GRETSKY, N.E. Relationship of elevated blood tyrosine to the ultimate intellectual performance of premature infants.

 Pediatrics. 49. 218-224, 1972.
- OPPENHEIMER, E.H., and HARDY, J.B.

 Congenital syphilis in the newborn infant: Clinical and pathological observations in recent cases.

 Johns Hopkins Medical Journal. 129: 63-82, 1971.

MEDICAL COLLEGE OF VIRGINIA

51. WARE, H.H., III.

The second twin.

American Journal of Obstetrics and Gynecology. 110: 865-873, 1971.

UNIVERSITY OF MINNESOTA

- 52. BENSMAN, A., LONG, D., MERRILL, D., HORROBIN, M., EASTON, J., and LAI, C. Myelomeningocele birth defect Habilitation of the child.

 Minnesota Medicine. 54: 599-604, 1971.
- 53. FISCH, R.O., and ANDERSON, J.A.

 Maternal phenylketonuria.

 In Eickel, H., Hudson, F.P., and Woolf, L.I. (Eds.):

 Phenylketonuria. Stuttgart, Germany, Georg Thieme Verlag, 1971.

 pp. 73-80.

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- 10

54. THELEN, T.H., ABRAMS, D.J., and FISCH, R.O.
Multiple abnormalities due to possible genetic inactivation in an X/Autosome translocation.

American Journal of Human Genetics. 23: 410-418, 1971.

UNIVERSITY OF OREGON

- 55. BABSON, S.G.

 Feeding the low-birth-weight infant.

 Journal of Pediatrics. 79: 694-701, 1971.
- 56. BENDA, G.I., and BABSON, S.G.

 Peripheral intravenous alimentation of the small premature infant.

 Journal of Pediatrics. 79: 494-498, 1971.
- 57. ENGEL, R.

 Early waves of the electroencephalic auditory response in neonates.

 Neuropadiatrie. 3: 147-154, 1971.
- 58. ENGEL, R., and MILSTEIN, V.

 Evoked response stability in trace alternant.

 Electroencephalography and Clinical Neurophysiology. 31: 377-382, 1971.
- 59. FAY, W.H.
 On normal and autistic pronouns.
 Journal of Speech and Hearing Disorders. 36: 242-249, 1971.

UNIVERSITY OF TENNESSEE

- 60. HANISSIAN, A.S., JABBOUR, J.T., deLAMERENS, S., GARCIA, J.H., and HORTA-BARBOSA, L. Subacute encephalitis and hypogammaglobulinemia.

 American Journal of Diseases of Children. 123: 151-155, 1972.
- 61. JABBOUR, J.T., DUENAS, D.A., SEVER, J.L., KREBS, H.M., and HORTA-BARBOSA, L. Epidemiology of subacute sclerosing panencephalitis (SSPE). A report of the SSPE Registry.

 Journal of the American Medical Association. 220: 959-962, 1972.



WARREN ANATOMICAL MUSEUM HARVARD UNIVERSITY

62. TOWBIN, A.

Massive cerebral hypoxic damage in the human fetus near term.

In Luthy, F. and Bischoff, A. (Eds.): Neuropathology, Proceedings of the Fifth International Congress, Zurich, Switzerland, August 31-September 3, 1965. Amsterdam, Excerpta Medica Foundation, International Congress Series No. 100, 1965, pp. 724-729.

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